MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE, DOMINION OF CANADA

FEBRUARY 1931

TEMPERATURE

Although there was some increased activity in circulation of air from the far north during February, the general path of cold was from the Mackenzie Delta and Coronation Gulf regions southeastward to the Hudson Bay and north central Quebec. The intensity was generally well below normal, with the result that temperatures averaged above normal over all Canada except the Mackenzie Delta and adjacent regions of the Arctic Archipelago, and locally in northern Quebec.

The excess over normal February temperature was three to twenty-four degrees in British Columbia (the greatest excess in the northern interior), eighteen to twenty-seven degrees in Alberta, Saskatchewan and Manitoba, four to eighteen degrees in Ontario, four to eight degrees over most of Quebec, and two to seven degrees in the Atlantic Provinces.

PRECIPITATION

Precipitation was generally deficient over the Dominion except on the northern coast of British Columbia, parts of the Mackenzie valley, and over the greater part of Nova Scotia and in Prince Edward Island.

BRITISH COLUMBIA

The month was three or four degrees warmer than a normal February on the coast and eight to twenty-four degrees warmer than normal in the interior. Precipitation was about ten per cent. in excess of normal on the northern coast, while on Vancouver Island there were slight excesses at some points and small deficiencies elsewhere. In the lower Fraser valley there was a deficiency of twenty-five per cent. and in the southern interior of fifty per cent. Snow is very light on the mountains of the interior with unfavourable prospects for irrigation at present.

ALBERTA, SASKATCHEWAN and MANITOBA

February was very mild in these provinces. The excess over normal temperature ranged from 18 degrees in eastern Manitoba to 27 degrees in central Saskatchewan. There was very little snow, some places reporting only a few flakes, and a very few as much as three inches of snow. At the end of February there was 1 or 2 inches of snow lying on the ground in Manitoba and mostly bare ground elsewhere.

During September and October together there falls, on the average, approximately 14 per cent. of the normal annual precipitation. In September and October, 1930, precipitation was quite heavy in some districts, interfering with harvesting and threshing, and a little below normal in others. Over the grain belt generally, however, 20 per cent. of the annual average fell in those two months. From November 1st to February 28th, there falls on the average 16 per cent. of the normal annual total while in these months this winter only 8 per cent. has fallen.

From October 1st to March 1st there falls normally 30 per cent. of the annual amount while in this period since October 1st 1930, 28 per cent. has fallen.

From November 1st, 1930 to March 1st, 1931 the temperature has averaged very high. It has reached 60 early in February in southeastern Alberta and southwestern Saskatchewan while in Manitoba it has fallen as low as 20 to 30 degrees below zero. But on the average the excess over normal since November 1st, 1930 has been approximately 14 degrees. The normal winter average for the grain region is between 8 and 9 degrees above zero while this winter the average has been nearly 23 degrees.

ONTARIO

The month was very mild in northern districts with excess of ten to eighteen degrees above normal February temperature. In southern districts the excess was generally four to eight degrees. Precipitation was forty per cent. less than the normal February amount.

QUEBEC

Along the St. Lawrence February was four or five degrees above normal temperature. In the Lake St. John and upper St. Maurice regions the excess was four to eight degrees. In some parts of the northern interior temperatures were slightly below normal. Precipitation was generally deficient by five to forty per cent. except locally.

ATLANTIC PROVINCES

The month was very mild, the excess over normal temperature ranging from two to seven degrees. In southern New Brunswick and the valley of the St. John river precipitation was normal to fifty per cent. below normal and about normal elsewhere in New Brunswick. In Nova Scotia some districts had heavy precipitation; Cape Breton had twice the normal amount. A heavy sleet storm on the tenth in Cape Breton Island, destroyed power and communication lines and did much damage to forests and orchards. Heavy snowstorms occurred in Prince Edward Island, blocking traffic and transmission for three days on one occasion.

HUDSON STRAIT

Temperatures were six to eleven degrees above normal in the Strait. At Chesterfield on the west coast of the Bay the excess was ten degrees and at Churchill fourteen degrees.

A. J. CONNOR.

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month. Column Sg denotes depth of snow on ground in inches, where given.

BRITISH COLUMBIA

STATION	H	L	P	I	STATION	H	L	P	I	STATION	H	L	P	I
Victoria	51°	32°	3.2	109	New Westminster	56°	28°	4.8		Invermere	44°	-4°	0.2	75
Goldstream Lake			7.7		Agassiz	56°	30°	4.0	57	Golden	46°	-9°	1.1	
Sooke	60°	29°	5.4		White Rock	59°	32°	3.0		Revelstoke	48°	13°	2.5	
Duncan	55°	24°	4.5		Salmon Arm	47°	17°	0.8	36	Glacier	39°	-3°	5.1	
Port Alberni	50°	28°	6.7		Kelowna	50°	15°	0.2		Prince George	50°	0°	0.5	76
Nanaimo	55°	28°	2.9	82	Vernon	49°	15°	0.5	46	Kamloops	52°	13°	0.4	49
Courtenay			4.4		Oliver	55°	14°	0.1	53	Prince Rupert	47°	32°	8.8	
Vancouver	54°	29°	4.9	80	Cranbrook	43°	2°	0.1						

ALBERTA, SASKATCHEWAN AND MANITOBA

STATION	H	L	P	I	Sg.	STATION	H	L	P	I	Sg.
Beaver Lodge	51°	14°	0.0	147		Birtle	41°	-24°	0.1		2
Edmonton	50°	6°	0.0	178		Ninette	50°	-18°	0.2		0
Calgary	55°	9°	0.2			Morris	43°	-25°	0.0		15
Medicine Hat	59°	10°	0.0	147	0	Morden	50°	-17°	0.3	167	
Scott	53°	-7°	0.3	166		Moose Horn Bay	45°	-35°	0.6		
Battleford	53°	-2°	T			Rapid City	54°	-27°	0.2		
Prince Albert	45°	-12°	0.2		T	Great Falls	42°	-29°	0.1		
Swift Current	60°	5°	0.1	160		Hamiota	42°	-10°	0.0		
Moose Jaw	58°	-1°	0.1	145		Shoal Lake	43°	-27°	0.3		
Qu'Appelle	45°	-16°	0.2	177	0	Oak Bank	49°	-25°	0.3		
Le Pas	44°	-23°	0.1	181		Pinawa	42°	-30°	0.2		12
Minnedosa	41°	-28°	0.1		1	Russell	42°	-30°			
Winnipeg	40°	-21°	0.2	144	2	Sprague	38°	-21°	0.4		
Dauphin	47°	-23°	0.5			Warren	°	°			
Brandon	44°	-26°	0.1	153	T	Waskada	50°	-20°	0.2		
Treesbank	48°	-20°	0.1		T						

ONTARIO

Atikokan	48°	-32°	0.3			Scotia Junction	35°	-28°	1.2		24
Mine Centre	42°	-19°	0.3		9	Walker's Point	39°	-30°	2.2	83	21
Ignace	44°	-28°	0.3			Beatrice	37°	-26°	1.5		24
Ingolf	40°	-30°	0.1			Barrie	38°	-10°	1.3		14
Kenora	39°	-23°	0.2			Walkerton	44°	2°	1.0		
Sioux Lookout	40°	-20°	0.1			Mount Forest	44°	-9°	0.6		10
Port Arthur	40°	-11°	0.2		4	Brucefield	39°	-3°	0.8		12
Quorn	47°	-31°	T			Lucknow	40°	-7°	0.4		
Schreiber	38°	-14°	0.4		12	Southampton	42°	-5°	1.0		5
Blind River	38°	-17°	0.7			Stratford	45°	0°	2.2		6
White River	42°	-41°	0.7		18	London	44°	2°	2.0		½
Biscotasing	41°	-33°	0.7			Woodstock	39°	-5°	1.2	116	5¼
Chapleau	47°	-30°	1.4			Paris	41°	-6°	2.1		T
Ruel	46°	-34°	0.7		17	Alton	40°	-15°	1.7		12
Cochrane	38°	-27°	0.3		12	Harrow	51°	12°	1.2	115	0
Haileybury	35°	-23°	0.5		9	Simcoe	46°	0°	2.2		T
Heaslip	33°	-26°	1.2			Toronto	43°	-6°	1.1	117	2
Iroquois Falls	37°	-34°	0.7			Beeton	48°	-7°	0.4		1
Kapuskasing	37°	-32°	0.6	71		Bloomfield	40°	-23°	1.9		6
New Liskeard	35°	-31°	0.8	69		Queensboro'	41°	-25°	1.6		14
Algonquin Park	38°	-22°	1.0			Kingston	41°	-8°	1.2	119	6
Madawaska	48°	-38°	1.1			Brockville	40°	-17°	2.4		
Montreal River	39°	-32°	1.2			Morrisburg	37°	-19°	2.4		18
North Bay	34°	-25°	1.6		13	Ottawa	44°	-16°	1.5		
Crystal Falls	38°	-25°	1.5		20	Ottawa (Exp.Farm)	37°	-23°	1.1	118	16
Gore Bay	38°	-20°	0.9			Renfrew	38°	-20°	1.3		15
Providence Bay	40°	-21°	1.4		6	Pembroke	47°	-20°	0.7		
Parry Sound	37°	-22°	1.5		20						

QUEBEC

STATION	H	L	P	I	Sg.
Cedars	40°	-16°	0.7		20
Macdonald College	38°	-18°	3.6		12
Montréal	36°	-5°	3.1	86	14
Farnham	41°	-30°	2.0	82	24
Brome	40°	-31°	3.3		24
Nicolet	38°	-16°	1.8		
Sorel	42°	-20°	1.9		27
Thetford Mines	39°	-25°	0.7		
Lennoxville	39°	-32°	1.4	65	2½
Sherbrooke	38°	-21°	1.8		18
Drummondville	37°	-22°	3.1		19
Beauceville	35°	-28°	2.9		30
Lake Mégantic	34°	-25°	1.2		62
Cap Rouge	35°	-21°	1.8	89	34
Québec	37°	-16°	2.5	104	23½
St. Joachim	38°	-18°	1.7		18
Armagh	47°	-22°	1.1		
Tadoussac	39°	-13°	1.1		
Seven Falls	35°	-33°	2.1		
Ste. Anne de la Pocatiére	35°	-18°	1.5	120	

STATION	H	L	P	I	Sg.
La Malbaie	43°	-26°	1.0		
Roberval	34°	-15°	2.5		20
Albanel	33°	-28°	0.2	115	12
Manouan	42°	-37°	1.7		
Lake Kempt	42°	-40°	1.1		
La Tuque	35°	-34°	1.3		
Chute aux Galets	26°	-44°	0.2		
Lac Onatchiway	32°	-40°	0.2		
Chute à Murdock	40°	-35°	0.8		
Kenogami	32°	-34°	1.3		
La Loutre Rapids	38°	-37°	1.5		
Joliette					
Huberdeau	43°	-24°	1.3		26
Maniwaki	46°	-23°	1.3		
St. Gabriel de Brandon	35°	-18°	2.5		18
Abitibi	33°	-28°	1.1		26
Dolbeau	40°	-38°	2.4		16
La Ferme	40°	-37°	0.9	122	
Ville Marie	30°	-24°	0.7		18
Sanmaur	42°	-44°	1.1		34

ATLANTIC PROVINCES

Saint John	43°	-6°	3.6	88	3
Aroostook	37°	-42°	2.2		18
Bathurst	52°	-19°	3.2		
Chatham	42°	-25°	2.8		16
Edmundston	37°	-27°	0.9		31
Fredericton	42°	-28°	1.7	88	24
Fredericton (Experimental Farm)	41°	-28°	1.7	84	12
Gagetown	42°	-22°	3.2		24
Grand Falls	37°	-36°	1.6		32
Harvey	40°	-28°	1.8		30
Musquash	42°	-17°	3.2		10
McAdam Junction	40°	-28°	3.5		30
Rexton	44°	-20°	4.6		36
Sussex	45°	-25°	2.9		

Woodstock	39°	-34°	1.5		5
Halifax	44°	-3°	4.1		2
Annapolis Royal	48°	-4°	3.7	67	
Digby	49°	6°	3.9		
Kentville	48°	-9°	3.1	71	
Liverpool	48°	-11°	5.2		
Nappan	44°	-22°	3.8	78	
Sydney	42°	-11°	8.7		24
Truro	48°	-14°	5.3		
Upper Stewiacke	48°	-15°	3.3		4
Wolfville	48°	-3°	3.6	74	
Yarmouth	45°	5°	5.6		
Charlottetown	45°	-6°	5.2		
Charlottetown (Experimental Farm)	43°	-10°	5.8	82	

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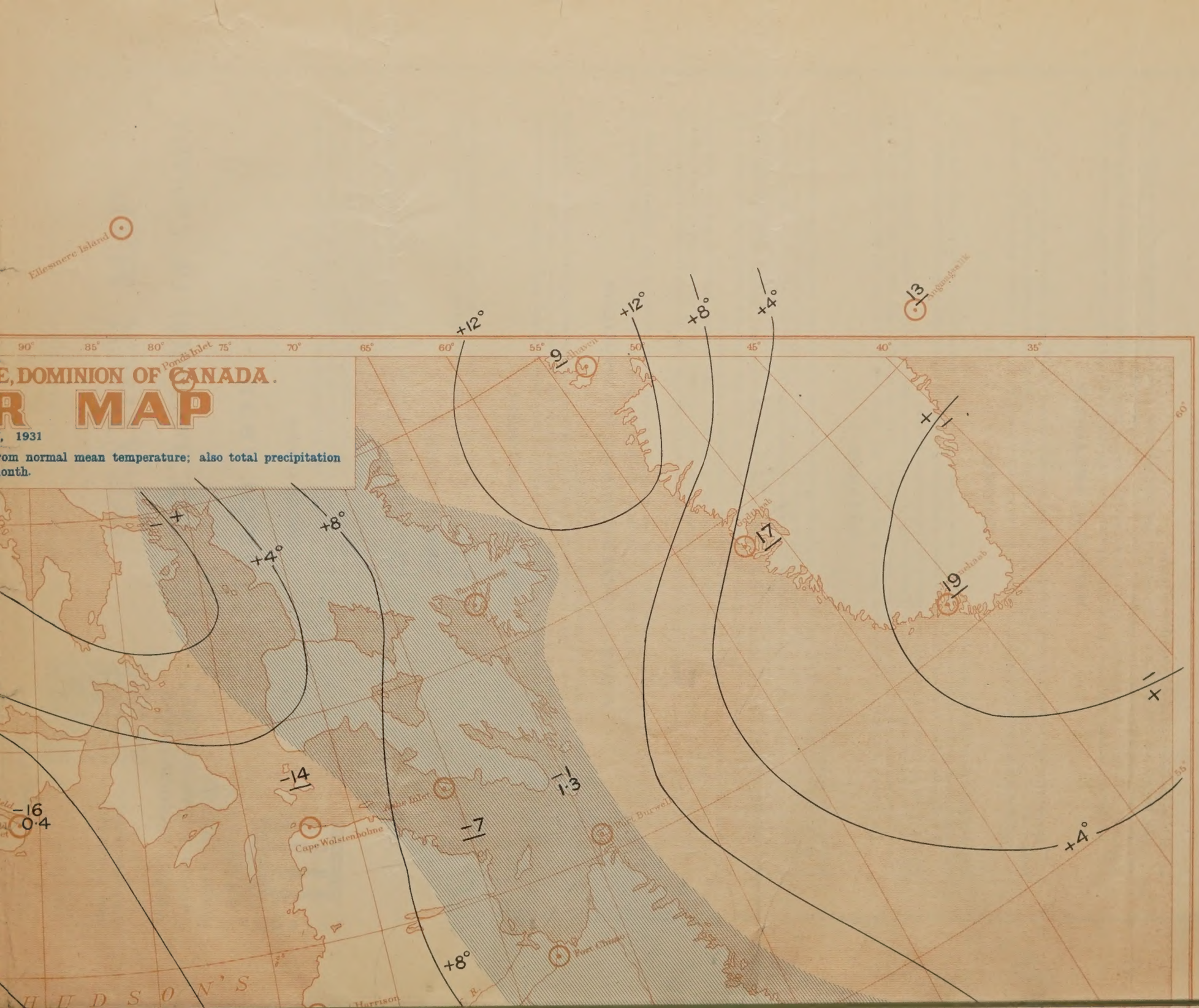
E, DOMINION OF CANADA.
R MAP
, 1931
rom normal mean temperature; also total precipitation
onth.
Ellesmere Island
Pond Inlet
Arctic Bay
Igloolik
Cape Wolstenholme
Harrison
H U D S O N ' S
+12°
+8°
+4°
-14
-16
0·4
-7
-1·3
-9
-17
-19
13

REFERENCES.
The upper Figures give the mean Temperature.
The lower Figures give the precipitation in inches.
The Black lines shew the difference from the normal mean Temperature.
The shading shews approximately the precipitation of the month.
Less than 1 inch
Less than 2 inches
Less than 3 inches
Less than 4 inches
More than 4 inches
50°
45°
40°
120°
115°
110°
105°
100°
95°
+4°
+8°
+12°
+16°
+20°
+24°
Triangle I.
Tatoosh I.
North Head
Portland
Seattle
Tacoma
North Yakima
Walla Walla
Lewiston
Spokane
Wallace
Columbia
Nelson
Kamloops
Fraser
Thompson
Okanagan
Kalispell
Missoula
Helena
Yellowstone Park
Billings
Sheridan
Pocatello
Salt Lake City
Lander
Cheyenne
North Platte
Omaha
Des Moines
Sioux City
Valentine
Rapid City
Pierre
Huron
Miles City
Williston
Bismarck
Devils Lake
Moorhead
Ellendale
St Paul
Duluth
Winnipeg
Kenora
Norway House
Qu'Appelle
Minnedosa
Moosejaw
Swift Current
Medicine Hat
Battleford
Prince Albert
Calgary
Edmonton
Athabaska Landing
Beaver Lodge
Grouard
Mc Murray
Churchill River
Saskatchewan
Red River
Assiniboine
Nelson R.
Hayes R.
La Cr
Charles City
Ile Pas
Lac Du Brochet
42 4.9
44 3.2
34 0.4
33 0.2
32 0.0
28 0.5
34 0.0
28 0.1
31 0.1
24 2.2
22 0.2
22 0.1
26 Trace
14 0.1
18 0.2
19 0.2

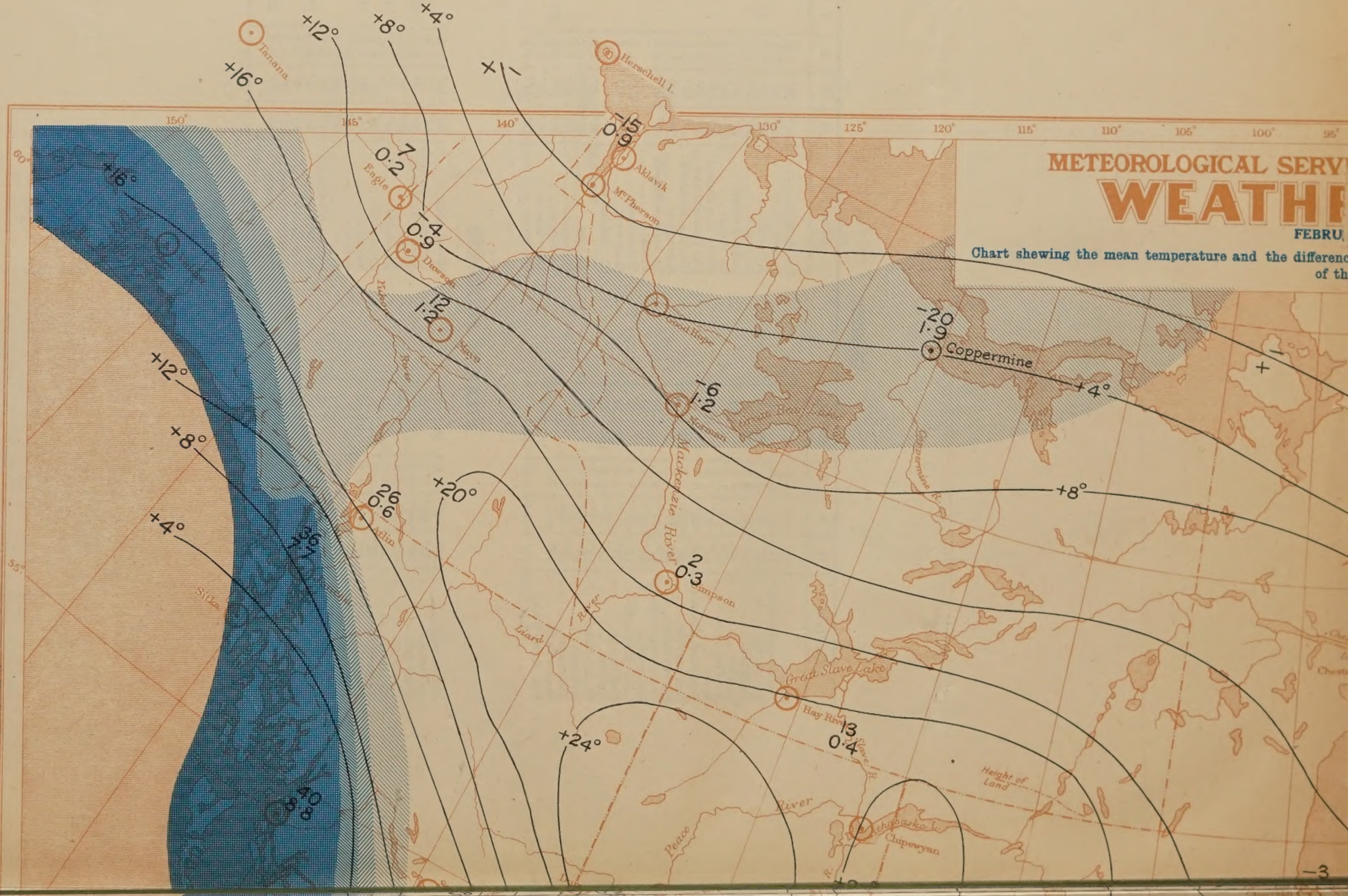
METEOROLOGICAL SERV
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Chart shewing the mean temperature and the differenc
of th
Herschell I.
Aklavik
McPherson
Eagle
Dawson
Coppermine
Mackenzie River
Simpson
Great Slave Lake
Hay River
Height of Land
Peace River
Chipewyan
Athabaska L.
Liard
Selkirk
Stikine
Telegraph Creek
Atlin
Tahltan
Tanana
+16°
+12°
+8°
+4°
+20°
+24°
0
−4
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−20
0·9
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1·9
0·6
0·3
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13
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55°
60°
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145°
140°
130°
125°
120°
115°
110°
105°
100°
95°

167

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